The Reaction of Methyl-β-(N-Substituted) Aminovinylketones With Benzaldehyde, by Goro Inouye, 10 pp.

JAPANESE, per, XXX Nihon Kagaku Zasshi, Vol LXXX, No 9, 1959, pp 1061-1063.

SLA 60-14243

Sci
Jan 62

178,270

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Mochizuki, Takani.
CAUSES OF SELECTIVE UNIPLANAR ORIENTATION. Pt. 2 of X-ray Study of the Microstructure of PVA Film. [1962] [16]p. (fig. omitted) 16 refs.
Order from SLA $1.60 62-18944

Trans. of Nihon Kagaku Zasshi (Japan) 1959, v. 80 [no. 10] p. 1090-1094.

DESCRIPTORS: *X-ray diffraction analysis, *Polymers, *Vinyl alcohol, *Films, *Microstructure, X-ray absorption analysis, Thickness, Water, Heat treatment, Crystals.

(Materials--Plastics, TT, v. 9, no. 6)

62-18944

I. Mochizuki, T.
II. Title: X-ray ...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

The Melting-Point Depression of Water in Sorbed State, by Y. Iwakami. 12pp

JAPANESE, per, Nihon Kagaku Zasshi, Vol [illegible], No 10, 1959, pp 1094-1097.

NLL Ref: 8732 1962
(10 403)
(Loan)

NRC C-3750

Sci - Physics
Oct 63

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Standard Vibrations of Hydrazine, by Akiko Yamaguchi, 10 pp.

JAPANESE, per, Nippon Kagaku Zasshi, Vol LXXX, No 10, 1959, pp 1109-1112. 9095534

AEC UCRL Tr-727(L)

Sci - Chem
Mar 62

186,478

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Characteristic Infrared Vibrations of Formals and Acetals, by K. Nukada,

JAPANESE, per, ~~J. Chem Soc Japan, Pure Chem Sect,~~ Nihon Kagaku Zasshi
Vol LXXX, No 10, 1959, pp 1112-1116.

ATS JJ-2162

Sci - Chem

May 60

115442

Mochizuki, Takani.
X-RAY STUDY ON THE MELTING POINT OF PVA. [1962] 13p. (fig. omitted) 9 refs.
Order from SLA $1.60 62-18942

Trans. of Nihon Kagaku Zasshi (Japan) 1959, v. 80, [no. 11] p. 1203-1206.

DESCRIPTORS: Abstracts, *X-ray defraction analysis, Plastics, *Polyvinyl alcohols, Vinyl plastics, Temperature, Melting.

Within the limits of the experiments made by the author, the diffraction intensity always decreases if the sample is heat-treated at a certain temperature (about 220°C or above) regardless of the degree of polymerization of PVA and of the temperature used during the preparation of the films. (Author)

(Materials--Plastics, TT, v. 9, no. 5)

62-18942

I. Mochizuki, T.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Separation of Carbon by Thermal Diffusion of Methane, (Rpt III). Characteristics of Thermal Diffusion Column of Hot Cylinder Type and Separation of Heavy Carbon, by Sumio Saribe, 20 pp.

JAPANESE, per, Nippon Kagaku Zasshi, LXXX, 1959, pp 1206-1210.

AEC MLM-1132R

Sci - Chem
Oct 62

212,630

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Mochizuki, Takami.
SMALL ANGLE X-RAY SCATTERING OF PVA CONTAINING ADSORBED IODINE. [1962] 6p. 10 refs.
Order from SLA $1.10 62-18945

Trans. of Nihon Kagaku Zasshi (Japan) 1959, v. 80, p. 1369-1370.

DESCRIPTORS: *X-rays, *Scattering, *Polymers, Synthetic fibers, Iodine, X-ray diffraction analysis, *X-ray absorption analysis, *Polyvinyl alcohol.

(Materials--Plastics, TT, v. 9, no. 6)

62-18945

1. Mochizuki, T.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

j
Activation Analysis of Short Life Nuclides: II, by Nakai, 7 pp.
JAPANESE, per, Nippon Kagaku Zasshi,
Vol LXXXI, 1960, pp 104-107.
ACSI J-0123
ID 2204031466

Sci-Phys
Jul 66 304,240

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

On the Two Isomers of Trimethylmelamine, by Rokuro Kitawaki, 18 pp.

JAPANESE, per, Nihon Kagaku Zasshi, Vol LXXXI, No 1, 1960, pp 175-179.

SLA 60-16676

Sci

Mar 62

190,049

Vol IV, No 6

On Sterols of 25 Species of Marine Invertebrates in Japanese Waters, by Minoru Kita and Y. Toyama. JAPANESE, per. Nippon Kagaku Zasshi, Vol 81, No 3, 1960, pp 485-491.
Dept of Interior
Fish and Wildlife Service
BCF, Bureau of Foreign Fisheries

Sci-E and M
Jan 68

346,839

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Hydroperoxide Studies. Part III. Oxidation Reaction of Cyclohexanol With Hydrogen Peroxide, by S. Choe. JAPANESE, per, Nippon Kagaku Zasshi, Vol 81, No 4, 1960, pp 589-594.
NTC-71-10219-07C

Nov 71

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Anomalies in Infrared Absorption Spectra by the Alkali Halide Disk Technique, by O. Makasu, T. Ito, 1 pp.
FOR OFFICIAL USE ONLY
JAPANESE, per, Nippon Kagaku Zassni, Vol LXXXI, 1960, pp 685-688. 96970[illegible]

Sc - Phys
Jul 68 [illegible]

Absorption Spectra of Phthalocyaninetetra-4-Sulfonic Acid and its Metal Derivatives, by Hiroshi Kobayashi, Yasuo Torii, et al.
JAPANESE, per, Nippon Kagaku Zasshi, Vol 81, No 5, 1960, pp 694-698. 9232/61
AEC UCRL-tr-1318

Sci/M&M
Jun 66

302,514

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Studies of the Oxication of Hydrocarbon Oils by Means of Infrared Spectroscopy, by Rempei Goto, et al.

JAPANESE, per, Nihon Kagaku Zasshi, Vol LXIII, 1960, pp 729-734.

Possibly to Come From Contacts per 10 Dec 62 memo
USIB INTERNAL USE ONLY

Sci - Phys
X Dec 62

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

A Study of Radioactive Decontamination: The Effect of Condensed Phosphates on the Radioactive Decontamination of Various Metal Surfaces, by Yuzo Tazima, Yoshiki Wada, 20 pp.

JAPANESE, per, Nippon Kagaku Zasshi, Vol LXXXI, 1960, pp 891-895.

AEC Tr-4302

Sci - Nuc Phys
21 Feb 61

140,950

Decomposition of Boron Nitride with Acid and the Effects of Some Oxiding Agents, by
Nakamura, Sen-ichi,
JAPANESE, per, Kogyo Kagaku Zasshi, Vol LXIII, 1960, pp 903-906.
*AEC 113-23

Sci-Chem
May 67

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Synthesis of Polycondensation Polymers From Alkylbenzene Derivatives, by W. Kawai, S. Tsutsumi.

JAPANESE, per, Nippon Kagaku Zasshi, Vol LXXXI, 1960, pp 1167-1170.

NLL Ref: 5828.4 1962 (10,072) (loan)

236,098

Sci - Chem Jul 63

Tsuboa, H.
ANALYSIS OF NATURAL WATERS BY CATION EXCHANGERS: SEPARATION OF METAL IONS WITH FORMATE BUFFERS. [1963] 12p.
Order from ATS $13.65 ATS-63Q70J

Trans. of [Nihon] Kagaku Zasshi (Japan) 1960, v. 81, no. 6, p. 927-931.

DESCRIPTORS: *Water, Analysis, *Ion exchange resins, Metals, Ions, Separation, *Formates, *Buffers.

(Chemistry--Analytical, TT, v. 10, no. 9)

63-22151

I. Tsuboa, H.
II. ATS-63Q70J
III. Title: Separation....
IV. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Matsuura, Ikuya, Kubokawa, Yutaka, and Toyama, Osamu.
OXIDATION OF CARBON MONOXIDE BY ZINC OXIDE. [1961] 19p. 9 refs.
Order from SLA $1.60 61-10837

Trans. of Nihon Kagaku Zasshi (Japan) 1960, v. 81, no. 7, p. 997-1003.

DESCRIPTORS: Carbon compounds, *Monoxides, Oxidation, Zinc compounds, *Oxides, *Catalysts, Semiconductors, Oxygen, Carbon dioxide, Adsorption, Chemical reactions, *Catalysis.

(Chemistry--Physical, TT, v. 6, no. 1)

61-10837

I. Matsuura, I.
II. Kubokawa, Y.
III. Toyama, O.

16161

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Matsuura, Ikuya, Kubokawa, Yutaka, and Toyama, Osamu.
OXIDATION OF CARBON MONOXIDE BY NICKEL OXIDE. [1961] 13p. 7 refs.
Order from SLA $1.60 61-10834

Trans. of Nihon Kagaku Zasshi (Japan) 1960, v. 81, no. 7, p. 1003-1007.

DESCRIPTORS: Carbon compounds, *Monoxides, Oxidation, Nickel compounds, *Oxides, *Catalysts, Semiconductors, Oxygen, Carbon dioxide, Adsorption, Chemical reactions, *Catalysis.

(Chemistry--Physical, TT, v. 6, no. 1)

61-10834

I. Matsuura, I.
II. Kubokawa, Y.
III. Toyama, O.

16;14

Office of Technical Services

Tarama, Kimio, Teranishi, Shiichiro, and Yasui, Teruo.
OXIDATION MECHANISM OF CARBON MONOXIDE BY V_2O_5 CATALYSTS. [1961] 15p. 9 refs.
Order from SLA $1.60 61-10835

Trans. of Nihon Kagaku Zasshi (Japan) 1960, v. 81, no. 7, p. 1034-1038.

DESCRIPTORS: Carbon compounds, *Monoxides, Oxidation, Vanadium compounds, *Oxides, Catalysts, Semiconductors, Electrical conduction, Chemical reactions, Adsorption, *Catalysis.

(Chemistry--Physical, TT, v. 6, no. 1)

61-10835

I. Tarama, K.
II. Teranishi, S.
III. Yasui, T.

101615

Office of Technical Services

Tarama, Kimio, Teranishi, Shichiro and others.
CHANGES OF ELECTRIC CONDUCTIVITY OF V_2O_5 ACCOMPANYING ADSORPTION OF OXYGEN, CARBON MONOXIDE, AND CARBON DIOXIDE GASES.
[1961] 11p. 12 refs.
Order from SLA $1.60 61-10836

Trans. of Nihon Kagaku Zasshi (Japan) 1960, v. 8, no. 7, p. 1038-1041.

DESCRIPTORS: Carbon compounds, *Monoxides, Oxidation, Vanadium compounds, *Oxides, *Catalysts, Semiconductors, Electrical conduction, Adsorption, Chemical reactions, Oxygen, Carbon dioxide, *Catalysis.

(Chemistry--Physical, TT, v. 6, no. 1)

61-10836

I. Tarama, K.
II. Teranishi, S.

161616

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Reduction of Gadolinium, Dysprosium, Holmium, and Erbium in a Dropping Mercurial [redacted] Electrode, by Akio Iwase, 15 p

JAPANESE, per, Nippon Kagaku Zasshi, Vol LXXXI, 1960, pp 1266-1271.

AEC-tr-T-497

Sci - Met-Mat

May-63

Takimoto, Masayoshi and Hirano, Hiroko.
A NEW COLORIMETRIC DETERMINATION METHOD FOR THIOUREA AND AMMONIUM THIOCYANATE.
Rept. 4 of Studies on Separation and Determination Methods for Cyanamide Derivatives. [1961] 12p. 8 refs.
Order from SLA $1.60 61-10829

Trans. of Nihon Kagaku Zasshi (Japan) 1960, v. 81, no. 9, p. 1414-1418.

DESCRIPTORS: *Thioures, *Thiocyanates, Ammonium radicals, *Cyanamides, Separation, Determination, *Colorimetric analysis.

(Chemistry--Analytical, TT, v. 6, no. 1)

61-10829

I. Takimoto, M.
II. Hirano, H.
III. Title: Studies...

101609

Office of Technical Services

[Takimoto, Masayoshi and Hirano, Hiroko].
A NEW COLORIMETRIC DETERMINATION METHOD FOR UREA.- Repr. 5 of Studies on Separation and Determination Methods for Cyanamide Derivatives. [1961] 12p. 6 refs.
Order from SLA $1.60 61-10828

Trans. of Nihon Kagaku Zasshi (Japan) 1960, v. 81, no. 9, p.1418-1421.

DESCRIPTORS: *Colorimetric analysis, *Urea, Determination, Cyanamide, Separation.

(Chemistry--Analytical, TT, v. 6, no. 1)

61-10828

I. Takimoto, M.
II. Hirano, H.
III. Title: Studies...

161605

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Agency: Bureau of Mines
P.O. No. P3120061

13
July 8, 1971
R-13477-8

Title: Inductive effect of polar substituents on carbon-hydrogen stretching vibrations of aliphatic hydrocarbons.

Authors: Rempei Gotoh and Tohru Takenaka.

Source: Nippon Kagaku Zasshi, v. 81, no. 10, 1960, pp. 1504-9.

Language: Japanese

Instructions: Please translate.

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

70-13446-07C
Ishii, S.
SAKAGUCHI REACTION OF ARGININE-CONTAINING PEPTIDES. Nihon Kagaku Zasshi, v. 81, p. 1586-1589, 1960.
Order from NTC as 70-13446-07C: HC $ 6.70, MF $ 5.80.

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Yuasa, Toshimi.
GAS IONS, FOR EXAMPLE, OF SEMICONDUCTORS, SEMIMETALS AND METALS . Pt. 1 of A Research on Gas Ions by a Quantum Analizer. [1961] [6]p. 11 refs.
Order from SLA $1.10 62-10625

Trans. of [illegible] (Japan) 1960. v. 81, p. 1643-1645.

DESCRIPTORS: *Gases, *Ions, *Ion sources, Semiconductors, Metals, Electrodes, Atoms, Molecules, Polymers, Spectrographic analysis.

A Mattauch type double focussing quantum analizer was used. Some poly-atomic molecular ions were produced by high frequency sparks between the two specimen electrodes which were made of the object elements. Semiconductors such as carbon, silicon, germanium, selenium and tellurium and semimetals such as anti- (Chemistry--Analytical, TT, v. 7, no. 12) (over)

62-10625

I. Title: Semimetals
II. Yuasa, T
III. Title: Research

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Kyogoku, Yoshimasa.
NORMAL VIBRATIONS OF ICE AND HEAVY ICE, tr. by H. Chihara. 1961, 15p. 10 refs. NRCC Technical Trans. 953.
Order from NRCC $1.50 NRCC C-3634

Trans. of [Nihon Kagaku Zasshi] (Japan) 1960, v. 81, no. 11, p. 1648-1653.

DESCRIPTORS: *Ice, Chemical bonds, *Vibration, Water, Molecular rotation.

(Earth Sciences--Frost, TT, v. 6, no. 5)

61-22355

I. Kyogoku, Y.
II. NRCC TT-953
III. NRCC C-3634
IV. National Research Council of Canada

180532

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Matsuura, Ryo.
REDUCTION REACTION OF VANADIUM PENTOXIDE BY HYDROGEN (REDUCTION OF VANADIUM PENTOXIDE BY A STATIC METHOD). Rept. no. 1 of Studies on Vanadium Pentoxide Catalysts. [1962] 13p. 13 refs.
Order from SLA $1.60 62-10696

Trans. of Nihon Kagaku Zasshi (Japan) 1961, v. 82, no. 3, p. 276-281.

DESCRIPTORS: *Vanadium catalysts, Vanadium compounds, Oxides, Reduction, Hydrogen, Reaction kinetics.

Using a static method, the velocity of the reduction reaction of vanadium pentoxide by hydrogen was measured across a hydrogen pressure range of 50 ~ 250 mm Hg. It was found as a result that this is a
(Chemistry--Physical, TT, v. 9, no. 3) (over)

62-10696

I. Matsuura, R.
II. Title: Studies . . .

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Matsuura, Ryo.
OXIDATION REACTION OF VANADIUM TRIOXIDE (BY OXYGEN). Rept. no. 2 of Studies on Vanadium Pentoxide Catalysts. [1962] 12p. 4 refs.
Order from SLA $1.60 62-10697

Trans. of Nihon Kagaku Zasshi (Japan) 1961, v. 82, no. 3, p. 281-285.

DESCRIPTORS: *Vanadium catalysts, Vanadium compounds, Oxides, Oxidation, Oxygen, Ions, Reaction kinetics, Thin films, Temperature, Pressure, Potassium compounds, Sulfates.

The oxidation velocity of vanadium trioxide formed by the hydrogen-reduction of vanadium pentoxide was measured at oxygen pressures of 60 ~ 250 mmHg and temperatures of 250° ~ 350°C and it was seen that the reaction consisted of a rapidly progressing reaction in
(Chemistry--Physical, TT, v. 9, no. 3) (over)

62-10697

I. Matsuura, R.
II. Title: Studies ...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Seiyama, Tetsuro, Suenaga, Akio, and Sakai, Wataru. THERMODYNAMIC CONSIDERATIONS ON THE CATALYTIC OXIDATION REACTIONS OF CARBON MONOXIDE AND SULFUR DIOXIDE. [1962] 20p. 13 refs. Order from SLA $1.60 62-14964

Trans. of Nihon Kagaku Zasshi (Japan) 1961, v. 82, no. 3, p. 292-298.

DESCRIPTORS: *Carbon compounds, *Monoxides, *Sulfur compounds, *Dioxides, Oxidation, *Catalysts, *Semiconductors, *Thermodynamics, Reaction kinetics.

With respect to the oxidation reaction of carbon monoxide, the order of activities of various types of oxide catalysts was evaluated from the thermodynamic properties of the catalysts. Similar considerations were made on the oxidation of sulfur dioxide, but in this instance, simple application of the thermodynamic values of the oxide catalysts did not agree with the actual state

(Chemistry--Physical, TT, v. 9, no. 5) (over)

62-14964

I. Seiyama, T.
II. Suenaga, A.
III. Sakai, W.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Shirai, Hideko.
THE REDUCTION WAVES OF NICKEL IONS IN SEVERAL SUPPORTING ELECTROLYTES. Report No. 7 of Studies on the Alternating-Current Polarography. 7p 5refs.
Order from O. T. S $1.10 TT-64-16374

Trans. of Nihon Kagaku Zasshi (Japan) 1961, v. 82 [no. 3] p. 339-343.

(Chemistry--Physical, TT, v. 1?, no. 4)

TT-64-16374

I. Shirai, H.
II. Title: Studies...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Condensation Products of Furfuryl Alcohol (VII)[1]
-- Infrared Absorption Spectra of Furan Derivatives, by A. Takano.
JAPANESE, per, Nippon Kagaku Zasshi, No 82, 1961, pp 373-376.
P9110.17868
AEC-LA-Tr-67-107

Sci-Chem
Mar 68

349,340

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Imoto, T., Ota, T, and Matsubara, T.
POLYMERIZATION OF ALDEHYDES. Pt. 2. HIGH-PRESSURE POLYMERIZATION OF CROTONALDEHYDE [1963] 9p.
Order from ATS $9.50 ATS-63Q69J

Trans. of [Nihon] Kagaku Zasshi (Japan) 1961, v. 82, no. 3, p. 378-381.

DESCRIPTORS: *Acetyl plastics, *Aldehydes, Polymerization.

(Materials--Plastics, TT, v. 10, no. 8)

63-22157

1. Title: Crotonaldehyde
I. Imoto, T.
II. Ota, T.
III. Matsubara, T.
IV. ATS-63Q69J
V. Associated Technical Services, Inc., East Orange, N. J.
VI. Title: High-pressure ...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Matsuura, Ryo.
REDUCTION REACTION OF SPHERICAL VANADIUM PENTOXIDE GRAINS IN HYDROGEN STREAM. Rept. no. 3 of Studies on Vanadium Pentoxide Catalysts. [1962] 8p. , ref.
Order from SLA $1.10) 62-10693

Trans. of Nihon Kagaku Zassha (Japan) 1961, v. 82, no. 4, p. 417-419.

DESCRIPTORS: *Vanadium catalysts, Vanadium compounds, Oxides, Grains (Metallurgy), Hydrogen, Reduction, Reaction kinetics, Thin film, Water, Diffusion.

Spherical vanadium pentoxide samples were prepared, and these were reduced by the normal-pressure flow-through method; the reduction velocity was determined from the amount of water formed. It was discovered as
(Chemistry--Physical, TT, v. 3, no. 5) (over)

62-10693

I. Matsuura, R.
II. Title: Studies . . .

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Matsuura, Ryo.
CHANGE IN SURFACE AREA OF GRANULAR VANADIUM PENTOXIDE BY HYDROGEN-REDUCTION, AND MICROSCOPIC OBSERVATION OF THE REDUCTION PROCESS. Rept. no. 4 of Studies on Vanadium Pentoxide Catalysts. [1962] 6p. 1 ref.
Order from SLA $1.10 62-10692

Trans. of Nihon Kagaku Zasshi (Japan) 1961, v. 82, no. 4, p. 419-421.

DESCRIPTORS: *Vanadium catalysts, Vanadium compounds, Oxides, Hydrogen, Reduction, Grains (Metallurgy), Surface area, Microstructure.

Using the granular vanadium pentoxide described in the Third report as the sample (See 62-10693), its surface area changes during hydrogen-reduction were traced by the BET method; and from the relationship between the
(Chemistry--Physical, TT, v. 9, no. 3) (over)

62-10692

I. Matsuura, R.
II. Title: Studies . . .

Office of Technical Services

Matsuura, Ryo.
HYDROGEN-REDUCTION REACTION OF VANADIUM PENTOXIDE GRANULES CONTAINING VARYING AMOUNTS OF MOLYBDENUM TRIOXIDE. Repr. no. 5 of Studies on Vanadium Pentoxide Catalysts. [1962] 7p. 5 refs.
Order from SLA $1.10 62-10694

Trans. of Nihon Kagaku Zasshi (Japan) 1961, v. 82, no. 4, p. 421-423.

DESCRIPTORS: *Vanadium catalysts, Vanadium compounds, *Oxides, Hydrogen, Reduction, Grains (Metallurgy), *Molybdenum compounds, Eutectics, Reaction kinetics.

Granular vanadium pentoxide catalysts containing varying amounts of molybdenum trioxide were made by the same method as in the Third report (available in trans- (Chemistry--Physical, TT, v. 9, no. 1) (over)

62-10694

I. Matsuura, R.
II. Title: Studies . . .

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Tarama, Kimio, Teranishi, Shichiro, and Yasui, Teruo.
RATE OF REDUCTION OF VANADIUM PENTOXIDE CATALYSTS BY HYDROGEN. [1962] [13]p. 7 refs.
Order from SLA $1.60 62-14963

Trans. of Nihon Kagaku Zasshi (Japan) 1961, v. 82, no. 4, p. 438-441.

DESCRIPTORS: *Catalysts, Oxides, *Vanadium compounds, Hydrogen, Reduction, Velocity, *Vanadium catalysts, Crystals, Lattices.

The apparent heat of activation of reduction of vanadium (V) oxide catalysts alone by hydrogen did not change depending on the manner of preparation of the sample, and a value of 19~21 kcal/mol was presented. But the velocity of reduction of vanadium (V) oxide was influenced by the manner of preparation of the catalyst, and it was discovered that the more the
(Chemistry--Physical, TT, v. 8, no. 7) (over)

62-14963

I. Tarama, K.
II. Teranishi, S.
III. Yasui, T.

Office of Technical Services

Yamaguchi, H.
THE SYNTHESIS OF N-SUBSTITUTED SULFAMATES BY THE USE OF AMMONIUM IMIDODISULFONATE. Pt. 1 of N-Sulfonation of Amines. [1961] 8p.
Order from ATS $13.30 ATS-14N53J

Trans. of [Nihon] Kagaku Zasshi (Japan) 1961, v. 82, no. 4, p. 485-486.

DESCRIPTORS: *Sulfamates, Synthesis, *Ammonium radicals, *Sulfonates, Chemical reactions, *Amines.

JJ 3282

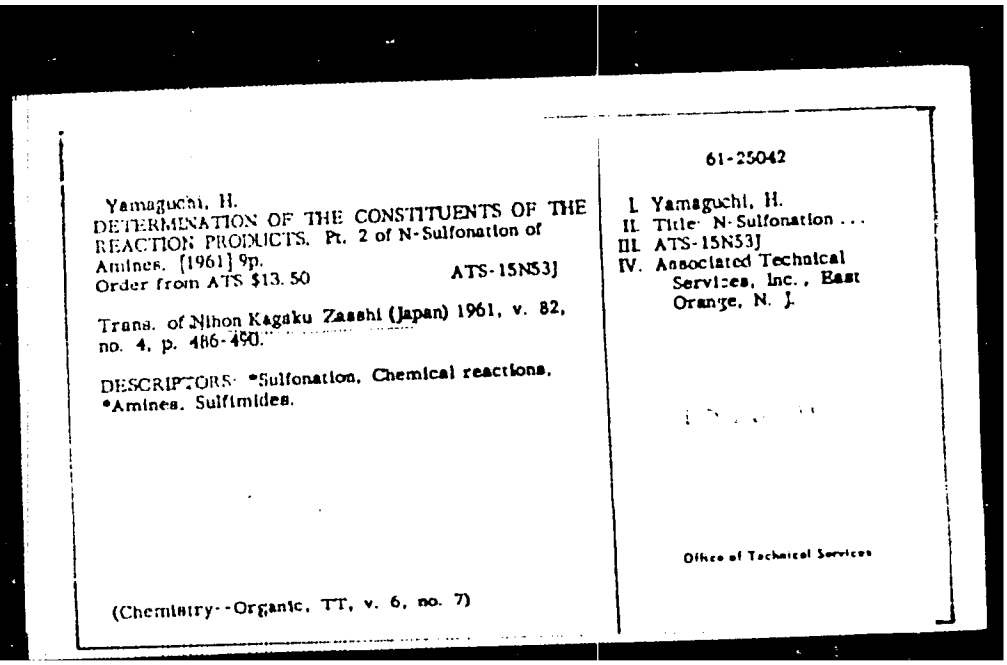
(Chemistry--Organic, TT, v. 6, no. 8)

61-25327

I. Yamaguchi, H.
II. Title: N-Sulfonation...
III. ATS 14N53J
IV. Associated Technical Services, Inc., East Orange, N. J.

[illegible]226

Office of Technical Services



Yamaguchi, H.
DETERMINATION OF THE CONSTITUENTS OF THE REACTION PRODUCTS. Pt. 2 of N-Sulfonation of Amines. [1961] 9p.
Order from ATS $13.50 ATS-15N53J

Trans. of Nihon Kagaku Zasshi (Japan) 1961, v. 82, no. 4, p. 486-490.

DESCRIPTORS: *Sulfonation, Chemical reactions, *Amines, Sulfimides.

(Chemistry--Organic, TT, v. 6, no. 7)

61-25042

I. Yamaguchi, H.
II. Title: N-Sulfonation ...
III. ATS-15N53J
IV. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Shimura, Hiroshi.
STUDIES ON O-NITROSOPHENOLS AND THEIR METAL COMPLEXES. REPT. 3. POLAROGRAPHY, ABSORPTION SPECTROSCOPY AND STABILITIES OF SUBSTITUTED O-NITROSOPHENOLS AND THEIR METAL COMPLEXES. 9p 1 refs.
Order from SLA $1.10 TT-64-16373

Trans. of [Nihon Kagaku Zasshi] (Japan) 1961, v. 82 [no. 6] p. 641-644.

(Chemistry--Organic, TT, v. 12, no. 4)

TT-64-16373

I. Shimura, H.
II. Title: Polarography...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

63-18810

Nosaki, Ryo, Hori, Fumiaki, and Kurihara, Kanjin. METHOD OF PHOTOMETRIC DETERMINATION OF OXALIC ACID AND CALCIUM BY USING ULTRA-VIOLET ABSORPTION OF IRON OXALATES (III)COMPLEX BODY. [1963] 6p. (figs. tables omitted) 3 refs. Order from SLA $1.10 63-18810

I. Nosaki, R.
II. Hori, F.
III. Kurihara, K.

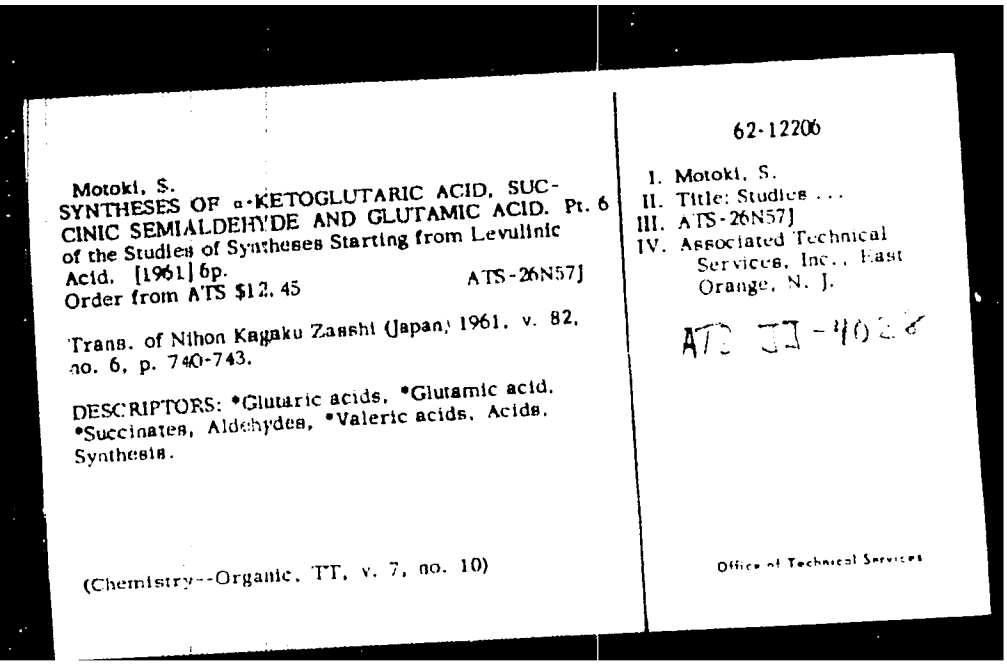
Trans. of Nihon Kagaku Zasshi (Japan) 1961, v. 82, no. 6, p. 713-715.

DESCRIPTORS: *Oxalic acids, *Calcium, *Iron compounds, Oxalates, *Complex compounds, *Perchlorates, *Ultraviolet spectroscopy, Chlorine, Sulfuric acid, Acetic acids, Tartrates, Citric acids.

A method for the photometric determination of oxalic acid and calcium was tried by using the ultra-violet ray absorption of iron oxalates (III) complex body with the composition of 1 : 1. In a solution (whose pH is 0.8") (Chemistry--Analytical, TT, v. 10, no. 12) (over)

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1



Motoki, S.
SYNTHESES OF α-KETOGLUTARIC ACID, SUCCINIC SEMIALDEHYDE AND GLUTAMIC ACID. Pt. 6 of the Studies of Syntheses Starting from Levulinic Acid. [1961] 6p.
Order from ATS $12.45 ATS-26N57J

Trans. of Nihon Kagaku Zasshi (Japan) 1961, v. 82, no. 6, p. 740-743.

DESCRIPTORS: *Glutaric acids, *Glutamic acid, *Succinates, Aldehydes, *Valeric acids, Acids, Synthesis.

(Chemistry--Organic, TT, v. 7, no. 10)

62-12206

1. Motoki, S.
II. Title: Studies ...
III. ATS-26N57J
IV. Associated Technical Services, Inc., East Orange, N. J.

ATS TT-62-12206

Office of Technical Services

Liang, Mong-hau and Tsutsumi, Shigeru.
REACTION OF CARBON MONOXIDE WITH PHENYL-LITHIUM. [1962] 9p. 5 refs. 62-18070
Order from SLA $1.10

Trans. of [Nihon Kagaku Zasshi] (Japan) 1961, v. 82, p. 880-882.

DESCRIPTORS: *Chemical reactions, *Carbon compounds, *Monoxides, *Phenyl radicals, *Lithium compounds, *Metalorganic compounds, Reaction [illegible]

The reaction of carbon monoxide with phenyl [illegible] was carried out at -10°C and normal pressure [illegible] minutes. Among the reaction products, benzo[illegible] benzohydrol, triphenylmethane, benzophenone [illegible] zoin, diphenylbenzoylmethane, p-hydroxytriph[illegible] acetic acid and benzoic acid were isolated, and [illegible] pounds related to carbon monoxide, and phenol, diphenyl and methylphenylcarbinol were obtained. (Chemistry--Physical, TT, v. 8, no. 9) [illegible]

62-18070

I. Liang, Mong-hau
II. Tsutsumi, S.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Hagino, K.
SPECTROPHOTOMETRIC DETERMINATION OF MINUTE AMOUNTS OF NITRATE ION. [1962] 9p. (8 figs. omitted) 3 refs.
Order from: SLA $1.10 62-16517

Trans. of [Nihon] Kagaku Zasshi (Japan) [1961] v. 82, p. 841-845.

DESCRIPTORS: *Spectrographic analysis, Colorimetric analysis, Ions - *Nitrate - Ammonia, Zinc, Magnesium compounds.

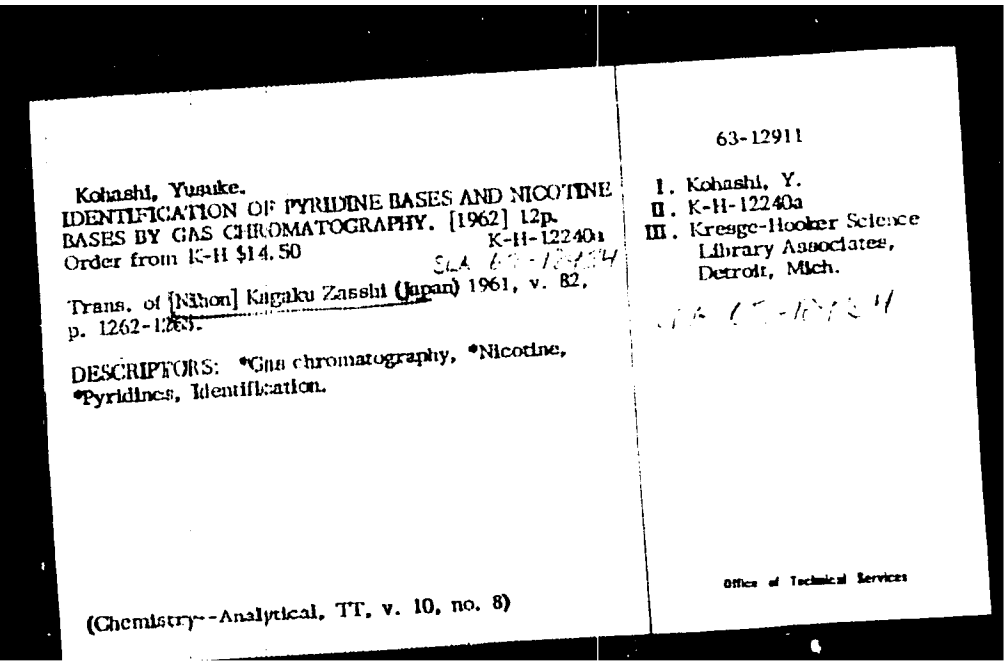
The NO_2 ion was prepared by reduction of NO_3 with zinc in aqueous ammonia, and complexed for colorimetry by Griess-Romijn (GR) reagent. Aqueous ammonia and metallic zinc were added to the sample solution; NO_2 was produced by shaking a constant number of times. After centrifugal separation, HCl was added to the filtrate; neutralization was then effected (cver)
(Chemistry--Analytical, TT, v. 8, no. 7)

62-16517

1. Hagino, K.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1



Kohashi, Yusuke.
IDENTIFICATION OF PYRIDINE BASES AND NICOTINE BASES BY GAS CHROMATOGRAPHY. [1962] 12p.
Order from K-H $14.50 K-H-12240a

Trans. of [Nihon] Kagaku Zasshi (Japan) 1961, v. 82, p. 1262-1265.

DESCRIPTORS: *Gas chromatography, *Nicotine, *Pyridines, Identification.

(Chemistry--Analytical, TT, v. 10, no. 8)

63-12911

I. Kohashi, Y.
II. K-H-12240a
III. Kresge-Hooker Science Library Associates, Detroit, Mich.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Kobashi, Y. and Watanabe, M.
QUANTITATIVE DETERMINATION OF PYRIDINE BASES AND NICOTINE BASES BY GAS CHROMATOGRAPHY. [1962] 9p.
Order from K-H $11.25 K-H-12240b

Trans. of [Nihon] Kagaku Zasshi (Japan) 1961, v. 82. p. 1265-1267.

DESCRIPTORS: *Gas chromatography, *Nicotine, *Pyridines, Quantitative analysis.

(Chemistry--Analytical, TT, v. 10, no. 8)

63-12912

I. Kobashi, Y.
II. Watanabe, W.
III. K-H-12240b
IV. Kresge-Hooker Science Library Associates, Detroit, Mich.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Inoue, Goro.
SYNTHESIS OF 3,5-DIACETYLPYRIDINE. Rept. no. 4 of [The Chemistry of] Methyl-β-Chlorovinylketone. [1962] 6p.(formaline omitted) 10 refs.
Order from SLA $1.10 62-10954

Trans. of [Nihon] Kagaku Zasshi (Japan) 1961, v. 82, no. 9, p. 1272-1274.

DESCRIPTORS: Synthesis, *Acetyl radicals, *Pyridines, Methyl radicals, Vinyl chlorides, *Ketones.

By a reaction of methyl-β-aminovinylketone and formaldehyde (obtained by the condensation of methyl- -chlorovinylketone and ammonia), 1,4-dihydro-3,5-diacetylpyridine was obtained. By oxidizing this compound, 3,5-diacetylpyridine was synthesized. By using acetaldehyde or benzaldehyde instead of formaldehyde, 4-methyl-, 4-phenyl--3,5-diacetylpyridine were syn- (Chemistry--Organic, TT, v. 8, no. 7) (over)

62-10954

I. Inoue, G.
II. Title: Chemistry ...

Office of Technical Services

Ryang, Moho, Miyamoto, En, and Tsutsumi, Shigeru.
REACTION OF CARBON MONOXIDE AND SODIUM PHENOLATE Rept. no. 4 of Reaction of Carbon Monoxide and Organic Metallic Compounds. [1962] 10p.
17 refs.
Order from SLA $1.10 62-14826

Trans. of [Nihon Kagaku Zasshi] (Japan) 1961, v. 82, no. 9, p. 1275-1279.

DESCRIPTORS: *Metalorganic compounds, *Carbon compounds, Monoxides, *Sodium compounds, *Phenyl radicals, Bromides, Benzenes, Organic solvents, *Magnesium compounds, Cobalt compounds, Cadmium.

The reaction of bromobenzene and metallic sodium was conducted in various solvents and carbon monoxide was released in its reaction system. Depending on the basicity of the solvent and reaction temperatures, radical
(Chemistry--Organic, TT, v. 9, no. 4) (over)

62-14826

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Hydrogenation of Carbon Monoxide in the Presence of Borides of Nickel, Cobalt, and Iron, by Hidesooku Kurita, Yubbun Tsutsumi.

JAPANESE, per, Nippon Kagaku Zasshi, Vol LXXXII, No 11, 1961, pp 1461-1463.

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Total Mercury Content in Sea Water,
by Kyoichi Hosohara, Hiroube Kozuma,
6 pp.

JAPANESE, per, Journal of the Chemical Society of Japan, Pure Chemistry Section, Vol LXXXII, No 11, 1961, pp 1479-1480.
9069379

AEC tr-5467

Sci - Chem
Dec 62

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Determination of Arsenic and Antimony in Meteorites by Neutron Activation, by Hiroshi Hamaguchi, Toshio Nakai, et al, 13 pp.

JAPANESE, per, Nihon Kagaku Zasshi, Vol LXXXII, No 11, 1961, pp 1485-1489. 9208804

AEC-tr-Tr-1015

Cat - Nucl Sci

Jul 63

Higuchi, Izumi, Ushigi, Yataroo, and Suzuki, Reiko. SORPTION AND DESORPTION EQUILIBRIUM OF VAPORS ON POROUS VYCOR GLASS. [1963] [22p] (foreign text included) 13refs
Order from SLA $2.60 TT-63-20713

Trans. of Nihon Kagaku Zasshi (Japan) 1961, v. 82, no. 12, p. 1620-1624. (Abstract available)

DESCRIPTORS: *Glass, Porosity, *Vapors, Sorption, Silicon compounds, Dioxides, Structural properties, Chemical equilibrium, Hysteresis.

Isothermal sorption and desorption curves were measured (plotted) for benzene, methanol and water at 0° C and for oxygen at -192° C on porous Vycor glass. The theoretical isothermal curves for capillary condensation on the sorbent, which is composed of densely packed spheres of equal radius, were found to (Materials--Ceramics, TT, v. 11, no. 4) (over)

TT-63-20713

1. Title: Vycor glass
2. Title: Desorption
I. Higuchi, I.
II. Ushigi, Y.
III. Suzuki, R.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Kawano, Kentaro and Odo, Keijiro.
SYNTHESIS OF GUANYL-o-ALKYLISOUREA SALTS AND THEIR REACTIONS. Rept. no. 1 on Guanyl-o-alkylisoureas. [1962] 15p. 7 refs.
Order from SLA $1.60 62-18037

Trans. of Nihon Kagaku Zasshi (Japan) 1961, v. 82, no. 12, p. 1672-1675.

DESCRIPTORS: Synthesis (Chemistry), *Guanidines, *Urethanes, *Alkyl radicals, *Chlorides, Cyanamides, Urea, Hydrochloric acid, Alcohols, Addition reactions.

Guanyl-o-alkylisoureas hydrochlorides (R, CH_3 and C_2H_5) were newly synthesized by addition reaction of dicyandiamide and alcohol in the presence of dry hydrochloric acid at room temperature. When conducted at a relatively high temperature in the presence of a concentrated acid, this reaction proceeded further and guanylurea hydrochloride and [the corresponding] alkyl
(Chemistry--Organic, TT, v. 10, no. 6) (over)

62-18037

1. Title: Guanyl-o-alkyli-soureas
I. Kawano, K.
II. Odo, K.
III. Title: Guanyl-o-alkyli-soureas

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Takimoto, Masayoshi.
AFFINITY OF CYANAMIDE DERIVATIVES FOR ION-EXCHANGE RESINS. [1962] 15p. 12 refs.
Order from SLA $1.60 62-14962

62-14962

I. Takimoto, M.

Trans. of Nihon Kagaku Zasshi (Japan) 196', v. 82, no. 12, p. 1702-1708.

DESCRIPTORS: *Cyanamides, Molecular structure, Chromatographic analysis, *Ion exchange resins.

The strength of affinity of a total of about thirty compounds, of cyanamide derivatives and resembling compounds, toward cation and anion-exchange resins was measured by chromatography, and the relationship between this and the chemical structure and dissociation constant was studied. It was found as a result that the tendency of affinity of the respective compounds toward ion-exchange resins was more or less regular, based on the affinity of their constituent radicals; that the affinity

(Chemistry--Analytical, TT, v. 9, no. 4) (over)

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

J-1228/62

Change Transfer Absorption Bands of Molecular Complexes of Chloronail With Naphthlene, Phenanthrene and Anthracene Derivatives, by Kuboyama Akira, 2/29

JAPANESE, per, Nippon Kagaku Zasshi, Vol LXXXIII, No 4, 1962, pp 17-21.

*JPRS/DC-811.0

Sci - Chem

Oct 62

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Mizumachi, Kunihiko.
ANION EXCHANGE OF THE MERCURY (II) CHLORO COMPLEX, Rept. no. 1 [of] Anion Exchange Equilibrium of Metal. [1963] 27p. (figs. omitte) 41 refs.
Order from SLA $2.60 63-14017

Trans. of Nihon Kagaku Zasshi (Japan) 1962, v. 83, no. 1, p. 61-67.

DESCRIPTORS: *Complex compounds, *Mercury compounds, Lithium compounds, Chlorides, Hydrochloric acid, *Ion exchange, Chemical equilibrium, Methyl radicals, Butyl radicals, Ketones.

Exchange equilibria of various metal anions in a mixture of hydrochloric acid-lithium chloride solutions were measured at 25°C. Equations were derived for calculating the anion exchange equilibrium constants, various equilibrium constants in the solution, and ratios
(Chemistry--Inorganic, TT, v. 10, no. 7) (over)

63-14017

I. Mizumachi, K.
II. Title: Anion...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Mizumachi, Kunihiko.
ANION EXCHANGE OF COBALT (II) COPPER (II), AND ZINC (II) CHLORO COMPLEXES. Rept. no. 2 [of] Anion Exchange Equilibrium of Metal. [1963] 24p. (figs. omitted) 25 refs.
Order from SLA $2.50 63-14019

Trans. of Nihon Kagaku Zasshi (Japan) 1962, v. 83, no. I, p. 67-72.

DESCRIPTORS: *Complex compounds, *Cobalt compounds, *Copper compounds, *Zinc compounds, Mercury compounds, Lithium compounds, *Chlorides, Hydrochloric acid, *Ion exchange, Chemical equilibrium.

The distribution coefficients of cobalt (II), copper (II) and zinc (II) between a hydrochloric acid-lithium chloride mixture and anion exchange resins were measured at 25°C. The distribution coefficient is
(Chemistry--Inorganic, TT, v. 10, no. 7) (over)

63-14019

I. Mizumachi, K.
II. Title: Anion ...

Office of Technical Services

Mizumachi, Kunihiko.
ANION EXCHANGE OF THE CHLORO COMPLEX IONS OF TELLURIUM (IV). Rept. no. 3 [of] Anion Exchange Equilibrium of Metal. [1963] 16p. (figs. omitted) 11 refs.
Order from SLA $1.60 63-14018

Trans. of Nihon Kagaku Zasshi (Japan) 1962, v. 83, no. 1, p. 75-78.

DESCRIPTORS: *Complex compounds, *Tellurium compounds, Lithium compounds, Chlorides, Hydrochloric acid, *Ion exchange, Chemical equilibrium, Acid-base equilibrium.

The distribution coefficient of tellurium (IV) from a hydrochloric acid-lithium chloride mixture with anion exchange resins was measured at 25°C. The distribution coefficient has a larger value generally when the (Chemistry--Inorganic, TT, v. 10, no. 7) (over)

63-14018

I. Mizumachi, K.
II. Title: Anion...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Optical Division of Dl Glutamic Acid and its Derivatives and Its Salts in Accordance with the Inoculation Method. Report No 1. The Racemic Bodies of DL-Glutamic Acid and its Salts and Division by the Inoculation Method, by T. Akashi.
JAPANESE, per, Nihon Kagaku Zasshi, Vol 83, No 4, 1962, pp 417-421.
SLA TT-66-10199

Sci-Chem
Aug 66 308,788

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Optical Division of Dl Glutamic Acid and its Derivatives and its Salts in Accordance with thethe Inoculation Method. Report 2. Division of DL-Glutamic Acid Hydrate by Inoculation Method, by T. Akashi.
JAPANESE, per, Nihon Kagaku Zasshi, Vol 83, No 4, 1962, pp 421-425.
SLA TT-66-10200

Sci-Chem
Aug 66 308,782

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Akashi, Takekazu.
DL-GLUTAMIC ACID IN A NEW CRYSTAL FORM. Rept. 3 of Optical Resolution of DL-Glutamic Acid, its Derivatives and their Salts by the Inoculation Method. [1962] 16p. 5 refs.
Order from SLA $1.60 62-20450

Trans. of [Nihon Kagaku Zasshi] (Japan) 1962, v. 83, p. 528-532.

DESCRIPTORS: *Crystal growth, *Glutamic acid, Crystals, Crystal structure, *Optical analysis, X-ray diffraction analysis, Molecular isomerism, Racemization, Crystallization, Crystal mixers, Chemical compounds, Salts.

(See also: 62-20449)

(Chemistry--Organic, TT, v. 10, no. 1)

62-20450

I. Akashi, T.
II. Title: Optical . . .

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Akashi, Takekazu.
OPTICAL RESOLUTION OF DL-GLUTAMIC ACID, ITS DERIVATIVES AND THEIR SALTS BY THE INOCULATION METHOD, IV. [1962] 17p. 5 refs.
Order from SLA $1.60 62-20449

Trans. of [Nihon Kagaku Zasshi] (Japan) 1962, v. 38, p. 532-536.

DESCRIPTORS: *Optical analysis, *Glutamic acid, Chemical compounds, Salts, Solubility, Molecular isomerism, Racemization, Crystal mixers, Crystal structures, *Crystal growth.

The solubilities of active isomers and racemic mixtures of pyroglutamic acid and its salts, N-acetylglutamic acid and glutamic acid-γ-methyl ester, which are derivatives of glutamic acid were measured in order to ascertain the composition of the racemic acids. At the (Chemistry - Organic, TT, v. 10, no. 1) (over)

62-20449

I. Akashi, T.

Office of Technical Services

The Relationship Between the Crystal Structure of Various Carbides of Thrium, Uranium and Rare Earth Elements and the Products Obtained When These Carbides Are Hydrolyzed, by I. Hanai, S. Kachi, 10 pp.

JAPANESE, pub., Nippon Kagaku Zasshi, Vol LXXXIII, 1962, pp 565-569.

AEC-tr-1967(Draft)

Sci-Mat & Math
Jan 64

Iwanami, Yasuo.
REACTION OF DIETHYL ACETYLENEDICARBOXYLATE WITH 2,3- AND 1,8- NAPHTHYLENEDIAMINE. Rept. 10 of Reactions of Acetylene Carboxylates with Amines. [1962] 11p. 23 refs.
Order from: SLA $1.60 63-10915

Trans. of Nihon Kagaku Zasshi (Japan) 1962, v. 83, no. 5, p. 597-600.

DESCRIPTORS: *Ethyl radicals, *Acetylenes, Carboxylic acids, *Esters, *Naphthalenes, *Amines, Chemical reactions, Infrared spectroscopy

(Chemistry--Organic, TT, v. 10, no. 1)

63-10915

I. Iwanami, Y.
II. Title: Reactions...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Tomonari, Akihisa.
AN IMPROVEMENT ON THE METHOD FOR SPECTROPHOTOMETRIC DETERMINATION OF TRACES OF CHLORIDE ION. [1963] 7p. (figs. tables omitted) 6 refs.
Order from SLA $1.10 63-18809

Trans. of Nihon Kagaku Zasshi (Japan) 1962, v. 83, no. 6, p. 693-695.

DESCRIPTORS: *Chlorides, Ions, Chemical analysis, *Spectroscopy, *Colorimetric analysis, Calibration, *Iron compounds, *Perchlorates, *Mercury compounds, *Thiocyanates, Nitrates.

An iron perchlorate solution and a mercuric thiocyanate solution were added to a specimen solution and the chloride ion was determined by measuring the absorbency of an orange-colored aqueous solution at
(Chemistry--Analytical, TT, v. 10, no. 12) (over)

63-18809

I. Tomonari, A.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Tomonari, Akihisa.
SPECTROPHOTOMETRIC DETERMINATION OF TRACES OF CHLORIDE IN LARGE AMOUNTS OF BROMIDE. [1963] 10p. (figs. tables omitted) 7 refs. Order from SLA $1.10 63-18715

Trans. of Nihon Kagaku Zasshi (Japan) [1962] v. 83, no. 6, p. 696-698.

DESCRIPTORS: *Chlorides, *Bromides, Oxidation, Spectrophotometers, Quantitative analysis.

A method for the determination of traces of chloride in large amounts of bromide was studied. An aqueous solution containing a fixed quantity of bromide ion was oxidized to potassium permanganate at the time when it was heated in nitric acidity. Conditions for the quantitative oxidation of bromide ion to bromine were sought. After removing bromine by heating the chloride (Chemistry--Analytical, TT, v. 10, no. 11) (over)

63-18715

I. Tomonari, A.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

62-18827

Katsumura, Tatsuo.
OPPENAUER OXIDATION OF ALCOHOLS, USING DIBUTYLDIISOPROPOXYTIN. [Rept.] 3 of Studies on Organotkin Compounds. 1962 [9]p. 17 refs.
Order from SLA $1.10 62-18827

Trans. of Nihon Kagaku Zasshi (Japan) 1962, v. 83 [no. 6] p. 729-731.

DESCRIPTORS: *Metalorganic compounds, *Tin compounds, *Alcohols, Benzyl radicals, Furfuryl alcohols Cholesterol, *Oxidation, Ketones, Alkoxy radicals.

It has been found that primary alcohols such as benzyl alcohol and anisyl alcohol undergo Oppenauer oxidation in the presence of dibutyldiisopropoxytin (I) and p-benzoquinone, forming aldehydes or ketones, and that xanthohydrol undergoes the same reaction in the presence of compound I and cyclohexanone. The formation
(Chemistry--Organic, TT, v. 9, no. 11) (over)

1. Title: Oppenauer reaction
I. Katsumura, T.
II. Title: Studies . . .

Office of Technical Service

Vibrational Spectra of Ethyl Alcohol and its Deuterium Analogue CH_3CH_2OD, by C. Tanaka. JAPANESE, per, Nihon Kagaku Zasshi, Vol 83, No 7, 1962, pp 792-798. NLL Ref: 8732 (1307)

Sci-Chem
Jan 69

373,611

Kunori, Masao
REACTION OF 1-METHYL INDOLE WITH BROMINE. Report 5 of Studies in Indole Links. [1962] 1 p. 13 refs.
Order from SLA $1.60 63-10321

Trans. of [Nihon] Kagaku Zasshi (Japan) 1962, v. 83, p. 836-838.

DESCRIPTORS: Chemical reactions, *Indoles, *Methyl radicals, *Bromine, Catalysts, Reduction, Absorption spectrum, Synthesis (Chemistry), Complex compounds.

(Chemistry--Organic, TT, v. 9, no. 10)

63-10321

I. Kunori, M.
II. Title: Studies ...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Kunori, Masao.
REACTION OF 1-METHYL-INDOLE WITH SULFURYL CHLORIDE OR BROMINE. Rept. 6 of Studies in Indole Links. [1962] 10p. 6 refs.
Order from SLA $1.10 62-18930

Trans. of Nihon Kagaku Zasshi (Japan) 1962, v. 83 [no. 7] p. 839-841.

DESCRIPTORS: *Indoles, Methyl radicals, Cyano radicals, Chemical bonds, Chemical reactions, Catalysts, Sulfonyl radicals, Chlorides, Bromides.

(Chemistry--Organic, TT, v. 10, no. 1)

62-[illegible]
I. Kunori, M.
II. Title: Studies ...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Suzuki, S., Saito, S., and Inoue, Y.
HOT ATOM CHEMISTRY OF As^{76} BY THE USE OF ZIRCONIUM PHENYLARSONATE. [1963] [6p] (figs omitted) 8refs
Order from SLA $1.10 TT-64-14808

Condensed trans. of [Nihon Kagaku Zasshi] (Japan) 1962, v. 83, no. 9, p. 1023-1026.

(Chemistry--Physical, TT, v. 11, no. 11)

TT-64-14808

I. Suzuki, S.
II. Saito, S.
III. Inoue, Y.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Exchange of Ions in Solution and Those on the Surface of Precipitate, by Kenjiro Hayashi, 32 pp.
JAPANESE, per, Nippon Kagaku Zasshi, Vol LXXXIII, No 10, 1962, pp 1068-1074. 9:24907
AEC-ANL-Tr-71

Sci-Nucl Sci
Oct 64

267,860

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Suga, K. and Watanabe, S.
REACTION OF SOME ALIPHATIC UNSATURATED HYDROCARBONS WITH FORMALDEHYDE. [1963] 24p
Order from SCI-H $24.00 K-H 12557-a

Trans. of Nihon Kagaku Zasshi (Japan) 1962, v. 83, no. 10, p. 1142-1147.

DESCRIPTORS: *Formaldehyde, *Aliphatic compounds, Hydrocarbons, Chemical reactions.

(Chemistry--Organic, TT, v. 10, no. 10)

63-22479

I. Suga, K.
II. Watanabe, S.
III. K-H-12557-a
IV. Kresge-Hooker Science Library Associates, Detroit, Mich.

Office of Technical Services

...y of the Ads...
Carbon Black Suspension ... ...
ium, by T. Kobayashi.

JAPANESE, per, Nippon Kagaku Zasshi, Vol LXXXIII,
No 10, 1962, pp1153-1159.

ACS JU-3927

Sci-Chem
Dec 6...

244, 859

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Neutron Shielding of Metals in Thermal Neutron Activation, by Y. Kamemoto, Y. Onoda.

JAPANESE, per, Nippon Kagaku Zasshi, Vol LXXXIII, 1962, pp 1164-1167.

*AEC

Sci - Nucl Sci
Oct 63

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Oda, Ryohei and Yamamoto, Keiji.
FORMYLATION OF AROMATIC COMPOUNDS BY THE 1 : 2 ADDUCT OF DIMETHYL-FORMAMIDE WITH CYANURIC CHLORIDE. [1963] 8p. 10 refs.
Order from SLA $1.10 63-16381

Trans. of [Nihon] Kagaku Zasshi (Japan) 1962, v. 83, no. 12, p. 1292-1294.

DESCRIPTORS: *Formamides, Methyl radicals, *Cyanogen chlorides, *Benzene derivatives, Amines, *Benzaldehydes, *Pyrolles, *Aldehydes, Naphthyl radicals, *Indoles, *Thiophenes, *Anilines, Formyl radicals.

As one of the numerous adducts formed by dimethylformamide, Gold (Angew. Chem. 72: 956, 1960) has obtained its 1 : 2 adduct with cyanuric chloride. It was discovered that this adduct was effective when used (Chemistry--Organic, TT, v. 10, no. 7) (over)

63-16381

1. Title: Adducts
2. Title: Cyanuric chloride
3. Title: Dimethyl formamide
4. Title: Formylation
I. Oda, R.
II. Yamamoto, K.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Iwasa, Y. and Imoto, T.
THE EQUILIBRIUM BETWEEN α-POLYOXYMETHYLENE AND FORMALDEHYDE. [1964] 10p
Order from K-H $6.00 K-H-12792-a

Trans. of Nihon Kagaku Zasshi (Japan) 1963, v. 84, no. 1, p. 29-31.

(Chemistry--Physical, TT, v. 12, no. 1)

TT-64-12944

I. Iwasa, Y.
II. Imoto, T.
III. K-H-12792-a
IV. Kresge-Hooker Science Library Associates, Detroit, Mich.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Iwasa, Y. and Imoto, T.
THE REVERSIBLE THERMAL DEPOLYMERIZATION OF α-POLYOXYMETHYLENE. [1964] 13p
Order from K-H $7.80 K-H-12792-b

Trans. of Nihon Kagaku Zasshi (Japan) 1963, v. 84, no. 1, p. 51-54.

(Chemistry--Organic, TT, v. 12, no. 1)

TT-64-12891

I. Iwasa, Y.
II. Imoto, T.
III. K-H-12792-b
IV. Kresge-Hooker Science Library Associates, Detroit, Mich.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Murakami, Masuo, Kang, Jeng W., Itatani, Hiroshi, Seno, Saburo, and Matzusato, Nariuki.
HOMOGENEOUS HYDROGENATION OF UNSATURATED LINKAGES IN ORGANIC COBALT (II OR III) COMPLEXES. [1963] 13p
Order from K-H $13.00 K-H 12792-c

Trans. of Nihon Kagaku Zasshi (Japan) 1963, v. 84, p. 48-50.

DESCRIPTORS: *Metalorganic compounds, Complex compounds, *Cobalt compounds, *Hydrogenation.

(Chemistry--Organic, TT, v. 10, no. 10)

63-22480

I. Murakami, M.
II. Kang, J. W.
III. Itatani, H.
IV. Seno, S.
V. Matzusato, N.
VI. K-H-12792-c
VII. Kreage-Hooker Science Library Associates, Detroit, Mich.

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Effects of Basic Groups of the Catalytic Reduction of Phenylbenzyl Ether, by N. Oshima. JAPANESE, per, Nippon Kagaku Zasshi, Vol 84, No 2, 1963, pp 174-176.
NTC-71-12404-07C

Nov 71

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Catalytic Reduction of Unsaturated Bonds With Cyanocobalt Complex Ions and Side Reactions, by H. Murakami.
JAPANESE, per, Nippon Kagaku Zasshi, Vol 84, No 8, 1963, pp 669-673.
NTC-71-12403-07C

Nov 71

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Electron Spin Resonance Study of Radical Pairs Trapped in Irradiated Single Crystals of Dimethylglyoxime at Liquid-Nitrogen Temperature,
by Yukio Kurita,
JAPANESE, per, Nippon Kagaku Zasshi, Vol 85, 1964, pp 833-42.
AEC NSJ-tr-76

Sci - Chem
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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Solvent Extraction of Beryllium, Copper, Nickel, Cobalt and Zinc as Dibenzoylmethane Complexes, by Tsunenobu Shigematsu. JAPANESE, per, Nippon Kagaku Zasshi, Vol LXXXIV, 1963, pp 131-134. 9231783
AEC-OTUL-Tr-940

Sci - M/H
Mar 66 296,473

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Solvent Extraction of Scandium, Its Separation From Yttrium and Rare-Earth Elements, by T. Shigematsu, M. Tabushi, et al, 12 pp.
JAPANESE, per, Nippon Kagaku Zasshi, Vol LXXXIV, 1963, pp 263-267. 9219761

AEC-Tr-5239

Sci-Mat & Met
Mar 64

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Dynamic Viscoelatic Properties of Asphalt, by
S. Sakajiri,
JAPANESE, per, Nihon Kagaku Zasshi, XXX Vol
LXXXIV, No 5, 1963, pp 384-392.
ATS 86R78J

Sept 66 311,239

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Electromigration Separation of Lithium Isotopes Using Ion Exchange Membrane, by Hidetake KAKIHANA, Makoto OKAMOTO.
JAPANESE, per, Nippon Kagaku Zasshi, Vol 84, 1963, pp 402-484. 9231126
AEC-Tr-6694

Sci/Nuclear Sci
May 66

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Theory of Isotope Separation by Two-Phase Distribution, by Hidetake Kakihana, Kimiko Kurisu, 11 pp.
JAPANESE, per, Nippon Kagaku Zasshi, Vol LXXXIV, 1963, pp 470-473. 9226157
AEC-SC-T-64-1617

Sci-Nucl Sci
Jan 65

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Visible and Ultraviolet Absorption Spectra of (Fe(III)(CN)5X) Type Complexes, by N. Matsuoka, Y. Shimura, 7 pp. JAPANESE, per, Nihon Kagaku Zasshi, Vol LXXXIV, No 6, 1963, pp 496-499. ATS-31791J

Sci - Phys
Sept 66

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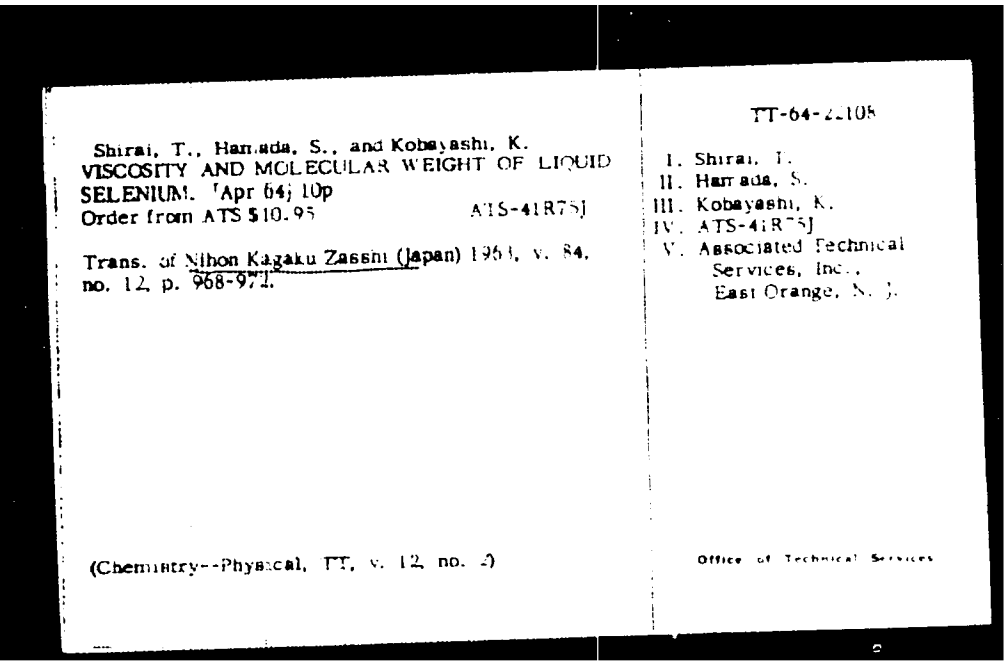
Radiolysis of Cobalt (III) Ethylenediaminete-
Traacetate in Aqueous Solution, by Matsuura, Niro,
Shinohara, Nobuyoshi, et al. 25 pp.
JAPANESE, per, Nippon Kagaku Zasshi, Vol 84, 1963
pp 897-902.
[illegible] L-tr-1241

~~Niro Matsuura~~

Sci/Physics
Apr 67 [illegible]

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1



Shirai, T., Hamada, S., and Kobayashi, K.
VISCOSITY AND MOLECULAR WEIGHT OF LIQUID SELENIUM. [Apr 64] 10p
Order from ATS $10.95 ATS-41R75J

Trans. of Nihon Kagaku Zasshi (Japan) 1961, v. 84, no. 12, p. 968-972.

(Chemistry--Physical, TT, v. 12, no. 2)

TT-64-22108

I. Shirai, T.
II. Hamada, S.
III. Kobayashi, K.
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Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Studies on High Pressure Polymerization.
Pt 8. High Pressure Copolymerization of
Chloro-Ethylenes with Styrene, by H. Asai. 15 p.
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SLA TT-66-10617

Sci-M&M
Jul 66

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Reaction of DPPH with Free Radicals formed by Photolysis of Azobisisobutyronitrile, by J.OSUGI.
JAPANESE, per, Nihon Kagaku Zasshi, vol. [illegible], no. 5, 1954, pp. 307-313.
NTC 70-17043-07E

June 1971

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1

Reaction of Diethyldicarbonateacetylene
With Guanidine and its Derivatives, by
Y. Sasaki.
JAPANESE, per, Nippon Kagaku Zasshi, Vol 85,
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NTC-71-14820-07C

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Electron Spin Resonance Study of Radical Pairs
Trapped in Irradiated Single Crystals of
Dimethylglyoxime at Liquid-Nitrogen Temperature,
by Yukio KURITA, 33 pp.
JAPANESE, per, *Nippon Kagaku Zasshi*, Vol 85,
No 12, 1964, pp 833-842. P9112[illegible]8567
AEC NSJ Tr-76

331,083

Sci - Materials
Aug 67

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200870046-1